

Chapter 5 — Consultation with Others

Agencies, companies, and organizations consulted by BIA, EPA, and USACE include the following:

Bearpaw, Inc.
City of Makoti
City of Plaza
Enbridge Pipelines (North Dakota) LLC
GeoTrans, Inc.
Indian Health Services
North Dakota Department of Health
North Dakota Department of Transportation
North Dakota Parks and Recreation Department,
North Dakota Heritage Inventory
State Historical Society of North Dakota
Triad Project Corporation
United States Fish and Wildlife Service
Water Supply, Inc.

Chapter 6 — Preparers and Contributors

BIA and EPA are Co-Lead agencies with decision-making authority over the EIS documents, including this Draft EIS. This document was prepared by BIA, EPA and Greystone Environmental Consultants, Inc., a third-party contractor. Representatives from the cooperating agencies contributed sections of the EIS and participated in the NEPA process. Table 6-1 through 6-5 present the names of individuals and their area or areas of responsibility from BIA, EPA, the U.S. Army Corps of Engineers, the MHA Nation and Greystone.

Table 6-1 U.S. Department of Interior, Bureau of Indian Affairs

Name	Project Responsibility
<i>Great Plains Regional Office</i>	
Diane Mann-Klager	Project Team Leader: NEPA and Fish and Wildlife
Roy Pulfrey	Irrigation Engineer, NEPA
Darin Larson	Hydrologist, engineer
Paul Hofmann	Hydrologist
<i>Fort Berthold Agency</i>	
Chris Manydeeds	Acting Superintendent
Mary Fredericks	Natural Resources

Table 6-2 U.S. Environmental Protection Agency, Region 8

Name	Project Responsibility
Monica Morales	Project Team Leader; Air Quality
Dana Allen	NEPA – EIS
Bruce Kent	NPDES
Mike Wireman	Groundwater
Tom Aalto	RCRA
Felix Flechas	RCRA
Jean Belille	Environmental Justice
Steve Wharton	Toxicology
Brent Truskowski	Wetlands

Table 6-3 U. S. Army Corps of Engineers

Name	Project Responsibility
Daniel Cimarosti	Project Manager
Toni Erhardt	CWA Section 404

Table 6-4 MHA Nation

Name	Project Responsibility
Horace Pipe	Project Manager

Table 6-5 Greystone — Third-party Contractor

Name	Project Responsibility	Education
Jerry Koblit	Principal-in-charge, Water Resources	B.S. Wildlife Management 32 years of experience
David Cameron	Project Manager	B.A. Biology M.S. Terrestrial Ecology 26 years of experience
Jack Cearley	Hazardous and Non- hazardous Wastes	Ph.D. Environmental Health, Aquatic Ecology/Toxicity M.S. Environmental Health B.S. Biology and Geology 34 years of experience
Gordon Frisbie	Air Quality	M.S. Environmental Engineering B.S. Wildlife and Fisheries Biology 17 years of experience
Ryan Henning	Vegetation, Wildlife, Special-status species, Soils, Water Resources	B.S. Biology 11 years of experience
Mike Holle	GIS	B.S. Natural Resource Science Minor in Spatial Database Management Systems 9 years of experience
Selina Koler	Soils	M.S. Restoration Ecology B.S. Natural Resource Management 4 years of experience
Carl Späth	Cultural Resources	Ph.D. Anthropology M.A. Anthropology B.A. Anthropology 32 years of experience
Lisa Welch	Socioeconomics, Aesthetics, Land Use, Recreation, Transportation	B.S. Earth Science 12 years of experience

Chapter 7 — Distribution of the Draft EIS

The following list identifies the officials, agencies, and organizations to whom the Draft EIS was sent.

Federal, Tribal, and State Officials

John Warner, ND House of Representatives

Tex Hall, Three Affiliated Tribes Chairman

North Dakota Governor

Federal Agencies

Department of the Interior

Bureau of Indian Affairs – Central Office, Great Plains Regional Office, and Fort Berthold Agency

Indian Health Service – Aberdeen Area and Fort Berthold

Environmental Protection Agency, Region 8

U.S. Army Corps of Engineers, North Dakota Regulatory Office

U.S. Fish and Wildlife Service, North Dakota Ecological Services

Natural Resources Conservation Service

Farm Service Agency

Tribal Agencies

Three Affiliated Tribes Business Council

Three Affiliated Tribes Environmental Department

Three Affiliated Tribes Game and Fish Department

Three Affiliated Tribes Department of Natural Resources

State Agencies

North Dakota State Water Commission

North Dakota Department of Health

North Dakota Department of Environmental Quality

Local Agencies

Lewis & Clark Public School District 61

Ward county Executive Director

Natural Environmental Department – Pesticide Enforcement

Makoti City Council

Makoti Development Board

Organizations

Indigenous Environmental Network

Honor the Earth

The Environmental Awareness Committee

Triad

Natural Resources Defense Council

North West Venture Communities

Verendrye Electric Cooperative

Chapter 8 — Glossary

Alkylation – A process using sulfuric or hydrofluoric acid as a catalyst to combine olefins (usually butylene) and isobutane to produce a high-octane product known as alkylate.

Aromatics – The group of hydrocarbon products that has a sweet smell, including benzene and toluene. They provide feedstock for many of the main petrochemical processes and improve the octane rating of gasoline.

Benzene – An unsaturated, six-carbon ring, basic aromatic compound. It is a colorless liquid hydrocarbon.

Barrel of Oil – Measurements that equal a barrel of oil include 42 U.S. gallons, 35 Imperial gallons, and 159 liters.

Bottoms – Tower bottoms are residue remaining in a distillation unit after the highest boiling-point material to be distilled has been removed. Tank bottoms are the heavy materials that accumulate in the bottom of storage tanks, usually comprised of oil, water, and foreign matter.

Catalyst – A material that aids or promotes a chemical reaction between other substances but does not react itself. Catalysts increase the speeds of reactions and can provide control by increasing desirable reactions and decreasing undesirable reactions.

Catalytic hydrocracking – A high-pressure petroleum refining process in which molecules too large and complex for use in gasoline have hydrogen added to them before being cracked into smaller, more suitable molecules.

Cetane number – A measure of a fuel's ignition delay. This is the time between the start of injection and start of combustion (ignition) of the fuel. In a particular diesel engine, higher cetane fuels will have shorter ignition delay periods than lower cetane fuels. Diesel fuels with a cetane number lower than minimum requirements for an engine can cause the engine to operate roughly make it more difficult to start, especially in cold weather or at high altitudes.

Cracking – The breaking of large (higher boiling point) hydrocarbon molecules into smaller (lower boiling point) ones.

Debutanizer – A fractionating column used to remove butane and lighter components from liquid streams.

Dehydrogenation – A reaction in which hydrogen atoms are eliminated from a molecule. Dehydrogenation is used to convert ethane, propane, and butane into olefins (ethylene, propylene, and butenes).

Distillate Fuel Oil – Products of refinery distillation sometimes referred to as middle distillates —includes kerosene, diesel fuel, and home heating oil.

Distillation – The separation of different petroleum components by selectively heating, vaporizing, and condensing compounds based on their different vapor pressures.

Dry Gas – Gas containing no water vapor.

Feedstock – Stock from which material is taken to be fed (charged) into a processing unit.

Flaring – The controlled and safe burning of gas that cannot be used for commercial or technical reasons.

Fractionation – The process whereby saturated hydrocarbons from are separated into distinct parts or “factions”, such as propane, butane, and ethane.

Fuel Gas – Refinery gas used for heating.

Gasoline – A blend of naphthas and other refinery products with sufficiently high octane and other desirable characteristics to be suitable for use as fuel in internal combustion engines.

Grass roots refinery – A refinery built at a new location all at once from the ground up. This does not include additions or refurbishments made at an existing refinery.

Grub – To clear by digging up roots and stumps

Heat Exchanger – Equipment to transfer heat between two flowing streams of different temperatures. Heat is transferred between liquids or liquids and gases through a tubular wall.

Hydrocarbons – Organic compounds consist of only hydrogen and carbon atoms. In general, the densities, boiling points, and freezing points of these compounds increase as their molecular weights increase. The smallest molecules of hydrocarbons are gaseous. The largest are solids.

Hydrodesulfurization – A catalytic process in which the principal purpose is to remove sulfur from petroleum fractions in the presence of hydrogen.

Hydrogenation – The chemical addition of hydrogen to a material in the presence of a catalyst.

Isomerization – A reaction that catalytically converts straight-chain hydrocarbon molecules into branched-chain molecules of substantially higher octane number. The reaction rearranges the carbon skeleton of a molecule without adding or removing anything from the original material.

Iso-Octane – A hydrocarbon molecule (2,2,4-trimethylpentane) with excellent antiknock characteristics on which the octane number of 100 is based.

Mercaptans – Strong-smelling compounds of carbon, hydrogen, and sulfur found in gas and oil. They are sometimes added to natural gas for safety reasons.

Naphtha – A general term used for low boiling hydrocarbon fractions that are a major component of gasoline. Aliphatic naphtha refers to those naphthas containing less than 0.1 percent benzene and with carbon numbers from C3 through C16. Aromatic naphthas have carbon numbers from C6 through C16 and contain significant quantities of aromatic hydrocarbons such as benzene (>0.1 percent), toluene, and xylene.

Octane Rating – A classification of gasoline according to its anti-knock properties. “Knocking” or “pinking” is a tendency for gasoline to detonate under compression in an engine instead of burning evenly. The higher the octane number, the less prone the fuel is to knocking.

Olefins – The group of hydrocarbons known as alkenes. In a refinery, olefin units produce ethylene and propylene to make polyethylene and polypropylene used by the petrochemical industry to make plastics, synthetic fibers, and adhesives.

Paraffins – Alkane hydrocarbons, such as methane, ethane, propane, butane, and pentane.

Polymerisation – The bonding of two or more simple molecules under heat and pressure to form larger molecules. In petrochemical production, polymer hydrocarbons are used to make plastics.

Reformate – An upgraded naphtha resulting from catalytic or thermal reforming.

Reforming – The thermal or catalytic conversion of petroleum naphtha into more volatile products of higher octane number. It represents the total effect of numerous simultaneous reactions, such as cracking, polymerization, dehydrogenation, and isomerization.

Saturated hydrocarbon – A hydrocarbon that has used all of its bonding electrons to make single bonds to other atoms. It can not make additional bonds without cutting off part of the existing molecule.

Sour Crude – Crude oil with a comparatively high sulfur content, 0.5 percent by weight and higher.

Sour Gas – Natural gas that contains corrosive, sulfur-bearing compounds, such as hydrogen sulfide and mercaptans.

Sweet Crude – Crude oil with a comparatively low sulfur content, less than 0.5 percent.

Unsaturated hydrocarbon – A hydrocarbon that contains double or triple bonds between certain atoms. These bonds may be broken and new atoms attached without disrupting the existing skeleton of the hydrocarbon.

Wet Gas – Natural gas containing condensable hydrocarbons.

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